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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,821	02/19/2002	Yasuyuki Suzuki	2002-0206A	2849
513	7590	09/19/2007	EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P.			PRYOR, ALTON NATHANIEL	
2033 K STREET N. W.			ART UNIT	PAPER NUMBER
SUITE 800			1616	
WASHINGTON, DC 20006-1021				
MAIL DATE		DELIVERY MODE		
09/19/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/049,821	SUZUKI ET AL.
Examiner	Art Unit	
Alton N. Pryor	1616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 15 May 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 7,20,21,33,39,40,42,43 and 47-49 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 20,33 and 47 is/are allowed.
- 6) Claim(s) 7,21,39,40,42,43,48,49 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Applicant's arguments filed 10/29/06 with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 21,33,39,40,42,43 are no longer rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a percutaneous absorption preparation comprising (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno-[5,4-b]furan-8yl)ethyl]acetamide (A = furan; X = CH₂, Y = C) or (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno-[5,4-b]furan-8yl)ethyl]propionamide (A = furan; X = CH₂, Y = C), does not reasonably provide enablement for a percutaneous absorption preparation comprising compounds of instant formula disclosed in claims 21,33,39,40,42,43 other than (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno-[5,4-b]furan-8yl)ethyl]propionamide (A = oxazole, etc.; X = NR₄ or O; Y = CH). The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make / use the invention commensurate in scope with these claims. The compounds provided by the formula in claims 21,33,39,40,42,43 differ in chemical functionality and polarity as well as other chemical and physical properties. Because of this the structures encompassed in the claims may differ in activity. In fact depending upon the chemical functionality possessed by the structure an antagonistic effect could possibly result.

Claims 39,40,42,43,48,49 are no longer rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for treating sleep awake rhythm disorders and somnipathy using a preparation comprising (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno-[5,4-b]furan-8yl)ethyl]acetamide (A = furan; X = CH₂, Y = C) or (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno-[5,4-b]furan-8yl)ethyl]propionamide (A = furan; X = CH₂, Y = C), does not reasonably provide enablement for treating biological rhythm disorders using a preparation comprising compounds of instant formula disclosed in claims 21,33 other than (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno-[5,4-b]furan-8yl)ethyl]propionamide (A = oxazole, etc.; X = NR₄ or O; Y = CH). The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make / use the invention commensurate in scope with these claims. Biological rhythm disorder is broad term not disclosed in the specification. However, the specification does support the treatment of sleep-awake rhythm disorders and somnipathy.

Claims 39,40,42,43,48,49 are no longer rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification does not use the phrase biological rhythm disorders, and therefore the specification does not provide examples of biological rhythm disorders.

Response to Applicant's argument

Applicants have amended claims 39,40,42,48 and 49 to remove NR4 and O from the definition of X , C from the definition of Y and 5-membered oxygen containing heterocyclic ring from the definition of A. These claims have also been amended to recite specifically sleep-awake rhythm disorders as the biological rhythm disorders. For these reasons the rejections under 35 USC 112, 1st paragraph are withdrawn. In addition the rejection of claims 21,33 and 43 under 35 USC 112, 1st paragraph is withdrawn in light of applicants' arguments filed 5/15/07.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7,21,39,40,42,43,48,49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohkawa et al (USPN 6218429) or Ohkawa et al (USPN 6034238). Ohkawa et al teach the formulations comprising the instant compounds such as (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl)ethyl]acetamide plus a surfactant including nonionic surfactants. Ohkawa teaches that the formulation can be applied in a plaster. Ohkawa teaches that the compound is administered for the treatment of sleep-awake rhythm disorders. Ohkawa does not teach the invention comprising the instant nonionic surfactant – lauric diethanolamine. See USPN '429 abstract, column 103 line 38 – column 104 line 5, column 104 line 65 – column 105 line 5. See USPN '239

abstract, column 103 line 58 – column 104 line 25, column 105 lines 17-24. It would have been obvious to replace the surfactants taught in Ohkawa with the instant surfactant - lauric diethanolamine. One would have been motivated to do this since the surfactants taught by Ohkawa in the prior art are used for the same purpose as the lauric diethanolamine surfactant is used for in the instant invention. The applicants provide no unobvious results for the instant lauric diethanolamine surfactant.

Allowable Subject Matter

Claims 20,33, and 47 are allowable. The prior art does not teach or suggest the instant invention comprising silicon dioxide plus lauric diethanolamide or isopropyl myristate, PEG, and lauric diethanolamide.

Telephonic Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alton N. Pryor whose telephone number is 571-272-0621. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Alton Pryor
Primary Examiner
AU 1616